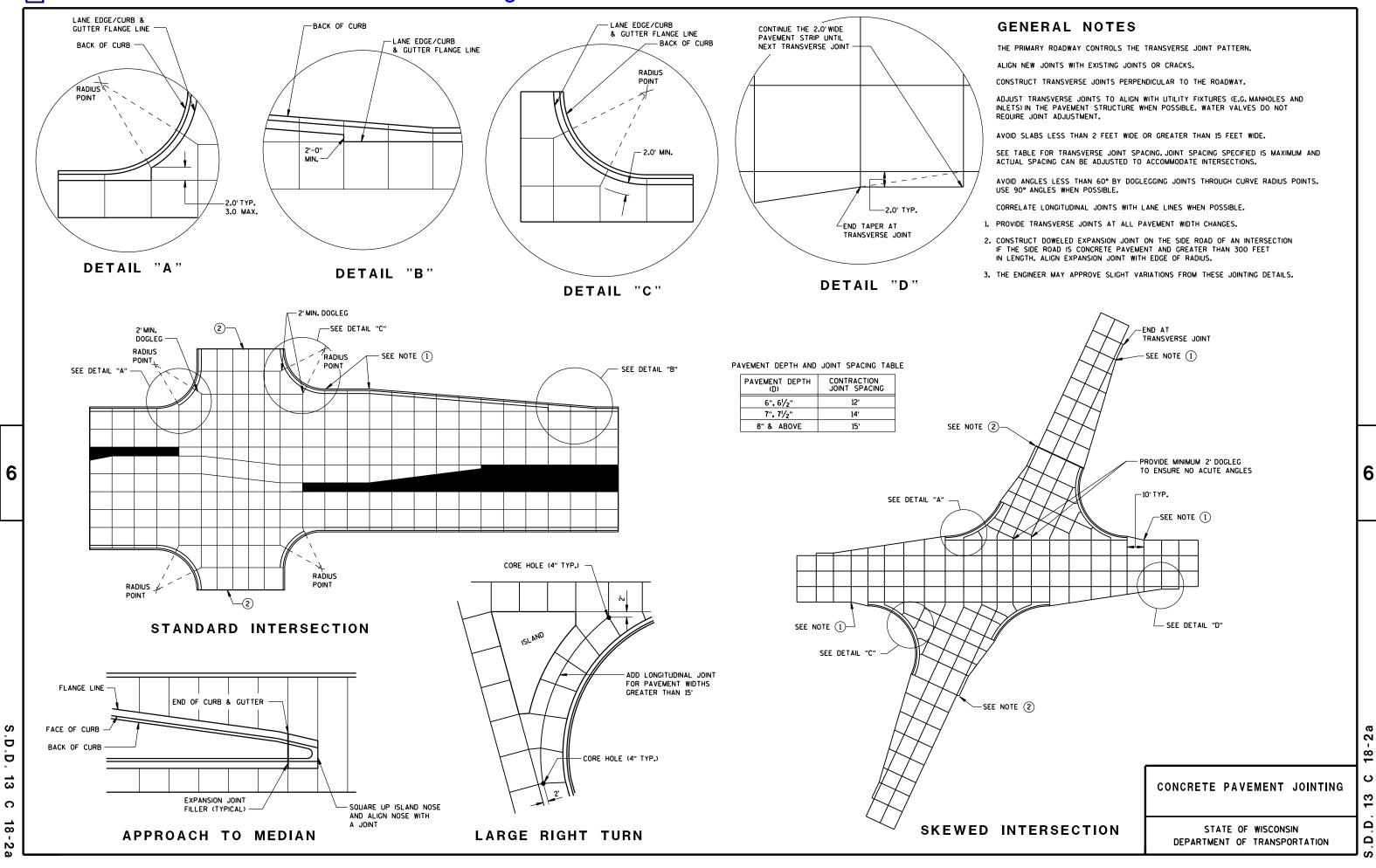
13C18 sheet a: Concrete Pavement Jointing

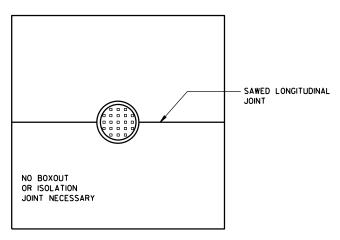


13C18 sheet c: Concrete Pavement Joint Types 1/4" MAX. 1/4" MAX.___ NO. 4 TIE BAR SEE NOTE 4-**GENERAL NOTES** USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. 2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS. 4. SPACE TIE BARS AT LONGITUDINAL CONSTRUCTION OR CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C1. 5. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED. 6. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS. **UNDOWELED-TRANSVERSE** TIED LONGITUDINAL NO. 4 TIE BAR SEE NOTE 4 DOWEL BARS AT 12" C-C 12" FROM PAVEMENT EDGE DOWEL BARS SPACED 12" C-C SEE NOTE 6 SEE NOTE 6 AND 12" FROM PAVEMENT EDGE **DOWELED-TRANSVERSE DOWELED TRANSVERSE** TIED LONGITUDINAL **CONTRACTION JOINTS** SEE NOTE (2) NO. 6 TIE BARS SPACED 12" C-C SEE NOTE 6 NO. 6 TIE BAR - SEE NOTE 6 AND 12" FROM PAVEMENT EDGE 6 SPACED 30" C-C EXISTING PAVEMENT PAVEMENT 1/2" TYP. (1" MAX.) JOINT SEALER 11/2" TYP. JOINT SEALER TIED TRANSVERSE EXPANSION CAP -TIED LONGITUDINAL TO EXISTING (FOR USE ON NON-DOWELED PAVEMENTS ONLY) SMOOTH DOWEL **CONSTRUCTION JOINTS** SEE NOTE (5) 2 c EXPANSION D JOINT FILLER 18 D 13 **CONCRETE PAVEMENT DOWELED-TRANSVERSE** UNTIED-LONGITUDINAL JOINT TYPES SEE NOTE (1) C **EXPANSION JOINTS** Ω

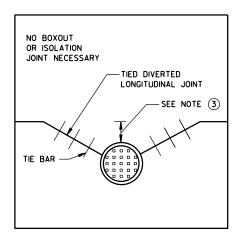
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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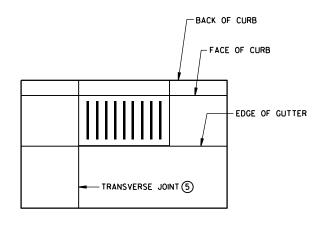
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



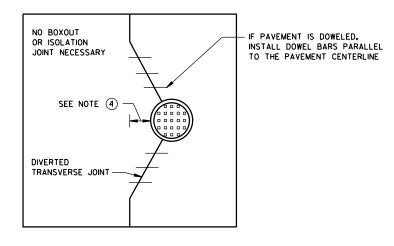
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

- (1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
- 2 ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
- (3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.
- (4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.
- (5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

- SAWED TRANSVERSE NO BOXOUT OR ISOLATION JOINT NECESSARY

MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

5-3-2013 DATE /S/ Deb Bischoff
PAVEMENT POLICY & DESIGN ENGINEER

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— — DOWELED JOINT

TIED JOINT EXPANSION JOINT

POTENTIAL DOWELED EXPANSION JOINT

TRUCK APRON

CENTRAL ISLAND ■ • UTILITY STRUCTURES

CONCRETE CURB AND GUTTER (TYP.) TIED TO PAVEMENT BACK OF CURB (TYP.) FLANGE OF CURB (TYP.) CONCRETE CURB AND GUTTER TIED TO CIRCULATORY ROADWAY NOT TIED TO TRUCK APRON EXPANSION JOINT CONCRETE CURB TIED TO TRUCK APRON

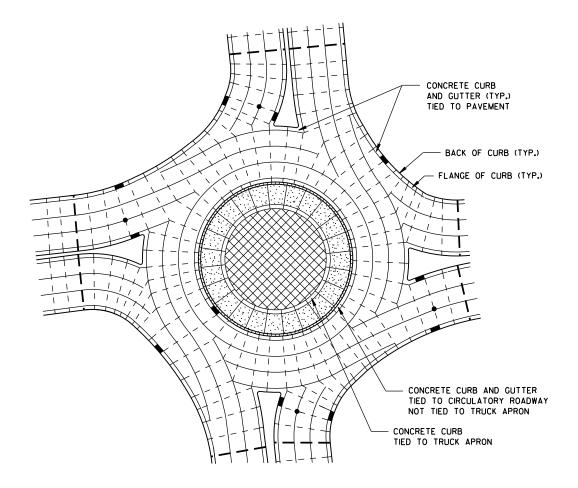
ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS

GENERAL NOTES

MAXIMUM JOINT SPACING IS IN ACCORDANCE WITH THE TABLE SHOWN ON SDD 13C18 SHEET "a".

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.

DO NOT DOWEL OR TIE THE TRUCK APRON TRANSVERSE JOINTS.



PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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APPROVED

5-3-2013 DATE /S/ Deb Bischoff
PAVEMENT POLICY & DESIGN ENGINEER

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Standard Detail Drawing 13c18 (sheet a-e)

June 19, 2013

Concrete Pavement Jointing

References:

FDM 14-10-10 FDM 14-10-35

Bid items associated with this drawing:

ITEM NUMBER	DESCRIPTION	<u>UNIT</u>
320.0100 - 0199	Concrete Base (inch)	SY
320.0300 - 0399	Concrete Base HES (inch)	SY
415.0060 - 0199	Concrete Pavement (inch)	SY
415.1080 - 1199	Concrete Pavement HES (inch)	SY

Standardized Special Provisions associated with this drawing:

STSP NUMBER TITLE NONE

Other SDDs associated with this drawing:

SDD 13c1	Concrete Pavement Longitudinal Joints and Ties
SDD 13c4	Urban Non-Doweled Concrete Pavement
SDD 13c11	Rural Doweled Concrete Pavement
SDD 13c13	Urban Doweled Concrete Pavement

Design Notes:

Include this SDD along with SPV.0105.XX, Concrete Pavement Joint Layout (located at http://roadwaystandards.dot.wi.gov/standards/qmp/jointlayout.pdf), whenever the plans include concrete pavement or concrete base. Always include sheets "a"," b", "c", and "d" together in plan sets. Sheet "e" is only needed if the project includes a roundabout. For unique project circumstances that are not covered in this set of SDDs, the contractor shall review the joint layout plan with the engineer.

Contact Person:

Deb Bischoff: (608) 246-7957